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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview

with Ms. Heather Colburn on January 12th 2010.

The examiner has not checked the specification to the extent necessary to

determine the presence of all possible minor errors (grammatical, typographical and

idiomatic). Cooperation of the applicant(s) is requested in correcting any errors of which

applicant(s) may become aware of in the specification, in the claims and in any future

amendment(s) that applicant(s) may file.

Applicant(s) is also requested to complete the status of any copending

applications referred to in the specification by their Attorney Docket Number or

Application Serial Number, if any.

The status of the parent application(s) and/or any other application(s) cross-

referenced to this application, if any, should be updated in a timely manner.

The application has been amended as follows:

Claims:

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Claim 1 has been rewritten as follows:

- 1. A solid oxide fuel cell system comprising:
- (a) at least one tubular solid oxide fuel cell comprising a ceramic solid state electrolyte layer and inner and outer electrode layers concentrically arranged around and sandwiching the electrolyte layer, the inner electrode layer fluidly communicable with only one of an oxidant reactant and a fuel reactant, and the outer electrode layer fluidly communicable with only the other of the oxidant and fuel reactants; and
- (b) a combustion heater fluidly communicable with the oxidant and fuel reactants such that combustion can occur, the heater mounted in sufficient thermal proximity to the fuel cell that the fuel cell can be heated by the combustion to an operating temperature, the heater comprising a porous outer tube and a porous inner tube within the outer tube, an inside of the inner tube defining an inner combustion chamber fluidly communicable with the oxidant and fuel reactants which form a mixture therein, and an annular space between the inner and outer tubes defining an outer combustion chamber in which fuel and oxidant mixture radially permeating through the inner tube is combusted, the outer tube sufficiently porous to enable the fuel and air reactants to pass through the outer tube.

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Claim 24, line 2, "23" has been replaced with --1--;
Claim 25, line 1, "23" has been replaced with --1--;
Claim39, line 1, "23" has been replaced with --1--;
Claim 41, line 1, "23" has been replaced with --1--;
Claims 14, 23 and 38, 40 are cancelled.
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Reasons for allowance

The instant application is patentable distinct over the closed prior arts Sammes (US6492050), Alvin (US2005/0066663), Shen (CN85100996) and Kim (US5932181) alone because these references alone or in combination fail to teach an annular combustion chamber between the outer and inside tube, neither they teach a third tube inside the inner tube nor teach an annular combustion chamber between the heater and the thermal casing. On the contrary, they only teach combustion inside the combustion chamber at the edges of tubes.

Conclusion

Claims 1, 5, 9-12, 18-22, 24-29, 34-37, 39 and 41 are allowed and all other claims are cancelled.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JUN LI whose telephone number is (571)270-5858. The examiner can normally be reached on Monday-Friday, 8:00am-5:00 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curtis Mayes can be reached on 571-272-1234. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 1793

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JUN LI/ Examiner, Art Unit 1793 01/19/2010

/Melvin Curtis Mayes/ Supervisory Patent Examiner, Art Unit 1793